PRINTER RUSH

(PTO ASSISTANCE)

Application : 10/089446 **Examiner :** Schilling **GAU :** 1752

From: OF **Location:** (IDC) FMF FDC **Date:** 3-2-06

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☐ 1449		☐ Continuing Data
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☐ 312		
☒ SPEC	12-18-02	

[RUSH] **MESSAGE:** Please provide new page 20 in spec. mark on table. Makes it illegible

Thank you

[XRUSH] **RESPONSE:** Done

INITIALS: AG

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REV 10/04

Polymer Type	Product Identification
Polyacrylates	Hycar ® 26083, 26084, 26120, 26104, 26106, 26322, B.F. Goodrich Company, Cleveland, Ohio Rhoplex ® HA-8, HA-12, NW-1715, Rohm and Haas Company, Philadelphia, Pennsylvania Carboset ® XL-52, B.F. Goodrich Company, Cleveland, Ohio
Styrene-butadiene copolymers	Butofan ® 4264, BASF Corporation, Samia, Ontario, Canada DL-219, DL-283, Dow Chemical Company, Midland, Michigan
Ethylene-vinyl acetate copolymers	Dur-O-Set ® E-666, E-646, E-669, National Starch & Chemical Co., Bridgewater, New Jersey
Nitrile rubbers	Hycar ® 1572, 1577, 1570 x 55, B.F. Goodrich Company, Cleveland, Ohio
Poly(vinyl chloride)	Vycar ® 352, B.F. Goodrich Company,Cleveland, Ohio
Poly (vinyl acetate)	Vinac ® XX-210, Air Products and Chemicals, Inc., Napierville, Illinois
Ethylene-acrylate copolymers	Michem ® Prime, 4990, Michelman, Inc., Cincinnati, Ohio Adcote 56220, Morton Thiokol, Inc., Chicago, Illinois

An additional embodiment of the barrier layer of the present invention is 100 parts (by weight) Polyester Resin (Polylite 32-737; Reichhold, Inc.). The polyester coating is applied with a dry coat weight of from 1 to 20 g/m^2, preferably 1-15 g/m^2 and most preferably 1-8 g/m^2. Coating methods include gravure, metered rod, air knife, cascade, etc. Coatings are cured by exposure to thermal energy that ranges from 30°C to 250°C, preferably 70°C to 200°C, and most preferably 120° to 170°C. Curing times range from 10 seconds to 20 minutes, preferably from 1 minute to 18 minutes, most preferably from 8 minutes to 15 minutes.

3. Dye Sublimation Ink Layer

Suitable dye sublimation inks include those disclosed in U.S. patents 5,919,609, 5,919,610, 5,888,253, 5,698,364, 5,910,812 and 5,863,860, which are herein incorporated by reference.

The image-wise marking using sublimation dyes can be achieved using any conventional mechanism by which color images (e.g. inks or dyes) are applied to a substrate.